

# Instructions of SimulyzerLYLib Effective 08.05.2020

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# 一推 相限 1 Instructions of SimulyzerLVLib Version 1.0.1

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	Versio	n-History:	THE LOW THE PARTY OF THE PARTY				
.0	Pos	Version	Author	Date	Changes		
XXX	1	1.0.0	Hua	15,02.2018	Created		
Mis.	2	1.0.0	Hua -	22.02.2018	Change Setup		
	3	1.0.0	Hua	17.05.2018	Add Table of Simulyzer-VIs and Screenshot of SimpleCall		
	4	1.0.0	Hua	16.11.2018	Update Simulyzer_64.dll, add Screenshot of FrontPanelSimpleCall		
	5	1.0.0	Hua	27.05.2019	Table of Simulyzer-VIs, changed GetSimulyzer		
	6	1,0.0	Hua	09.07.2019	Simulyzer_64.dll, Simulyzer.dll are equal to GUI's 2.6.19		
	7 X	1.0.0	Hua	05.12.2019	Simulyzer_64.dll, Simulyzer.dll are equal to GUI's 2.6.21		
	8/6/17	1.0.0	Hua	20.03.2020	Simulyzer_64.dll, Simulyzer.dll are equal to GUI's 2.6.21  FPGA Version: 0241		
	9	1.0.0	Hua	25.03.2020	Added rawDataFileOut and sensorDataFileOut of loadConfiguration.vi		
	10	1.0.0	Hua	08.05.2020	Simulyzer_64.dll, Simulyzer.dll are equal to PSI5_GUI's 2.6.21 with FPGA_Version 0241 and DSI_GUI's 1.8.2 with FPGA_Version 0421.  Added ReleaseSimulyzer.vi		
	11	1.0.1	Perkins	02.08.2021	some design changes and typos removed		
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# Instructions of SimulyzerLyLib Effective 08.05.2020 yzer\_64.dll and following sub folders:

## General Information 1

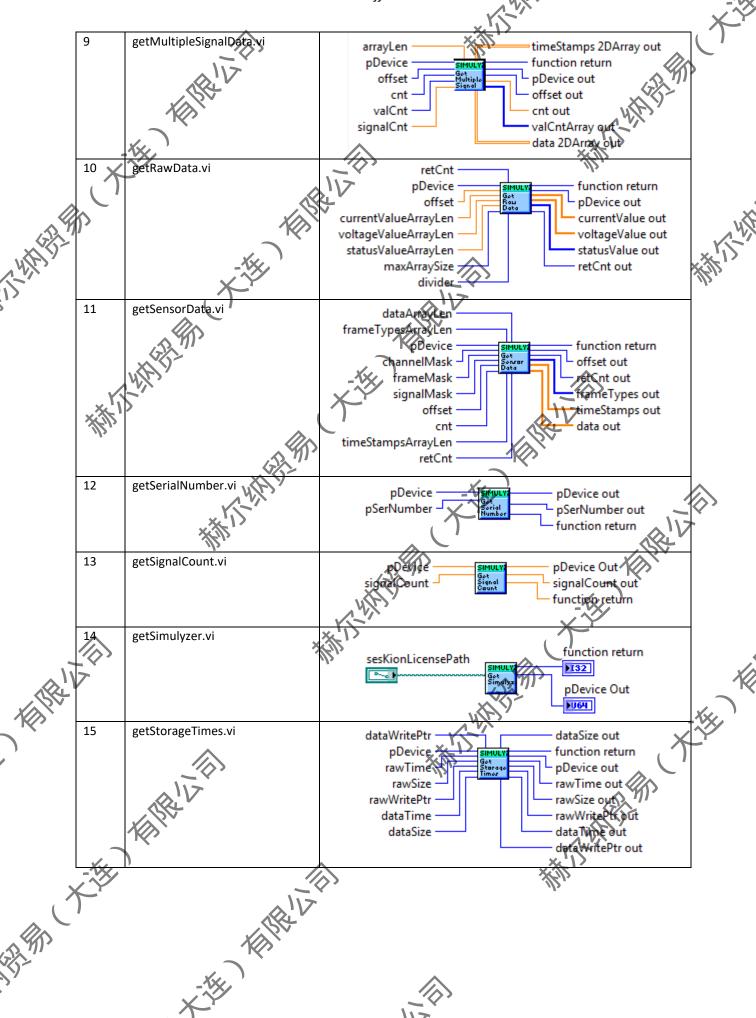
Folder consists of Simulyzer\_dll, Simulyzer\_64.dll and following sub folders:

## 1.1 Simulyzer-VIs consisting of 28 Vis.

Simulyzer-VIs Table:	Name	Input	Output
	erLicenseFile.vi		function return
2 destroySystem	n.vi	Simu Dortr Syste	function return
3 expertCsV.vi		onfigFile pDev exportFile startTime endTime	function return
4 exportTDMS.v		swVersion description configFile pDev simulyzerType	function return
5 getDeviceCou	nt.vi	exportible start ime start ime description	
7	Bus	pCount SIMI	Count out
6 getFirmwareV		hSensor FWVersion	hSensor out pFWVersion out function return
7 getInterfaceEr	ror.vi	pDevice SIMU	functionReturn pDevice pError
8 getLicense.vi		pDevice SIMUL pLicense Got Lison	pDevice out pLicense out function return
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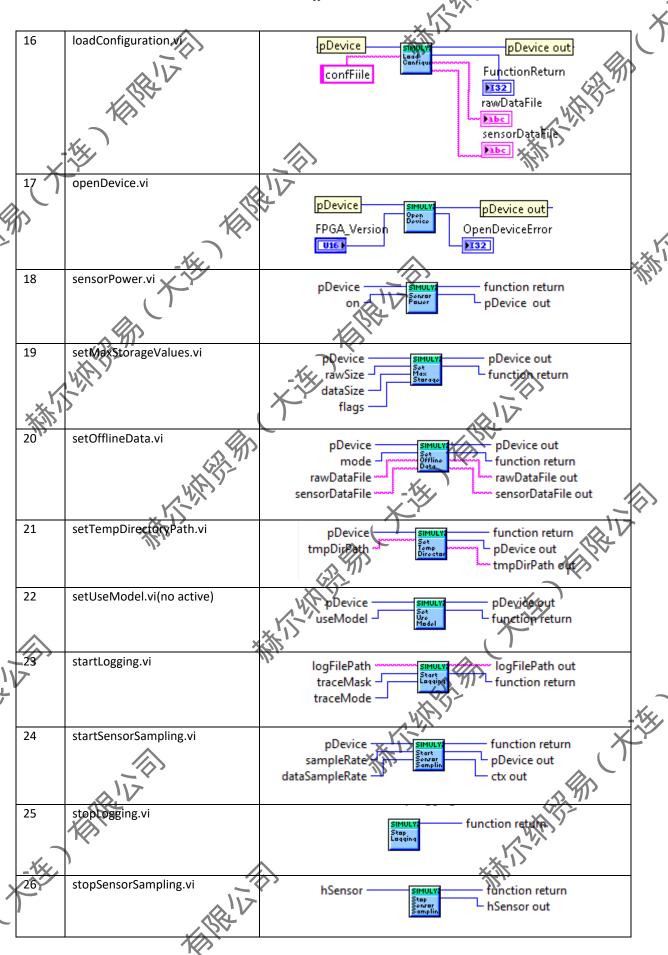
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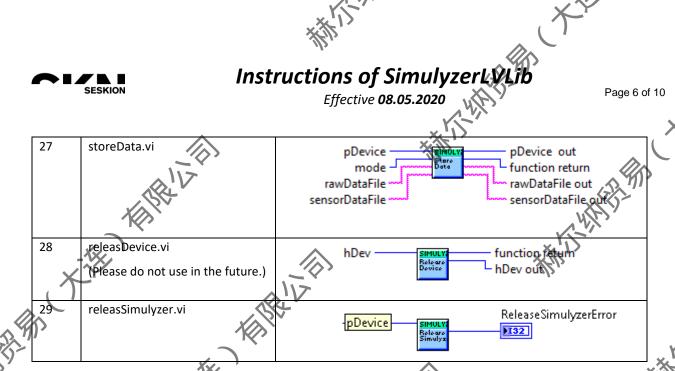
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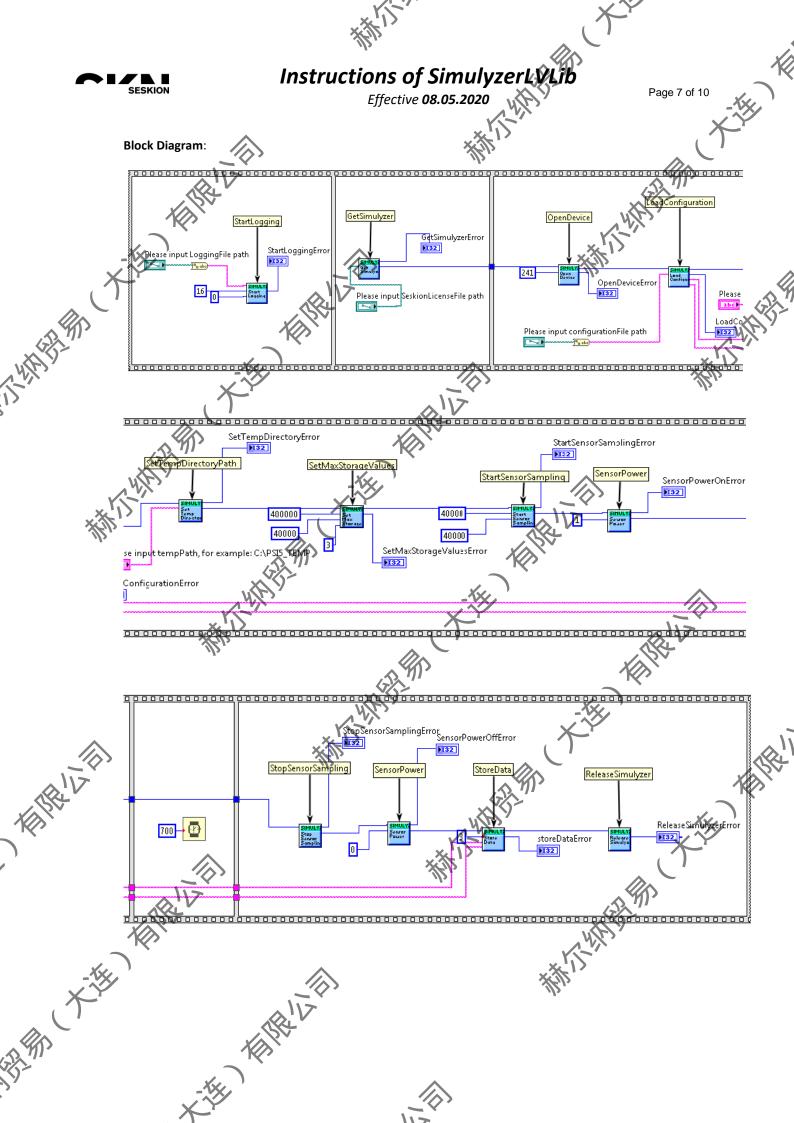
## Example consisting of two examples 1.2

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simpleCall.vi with FPGA-Version 0241(Screenshot) and simpleCall\_DSI.vi with FPGA-Version 0421

Front Panel:







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# 2

# 2.1

- Recommend:

  Create a sub palette in LabView functions palette with name, example SesKionSimulyzer

  Add VIs to SesKionSimulyzer and save.

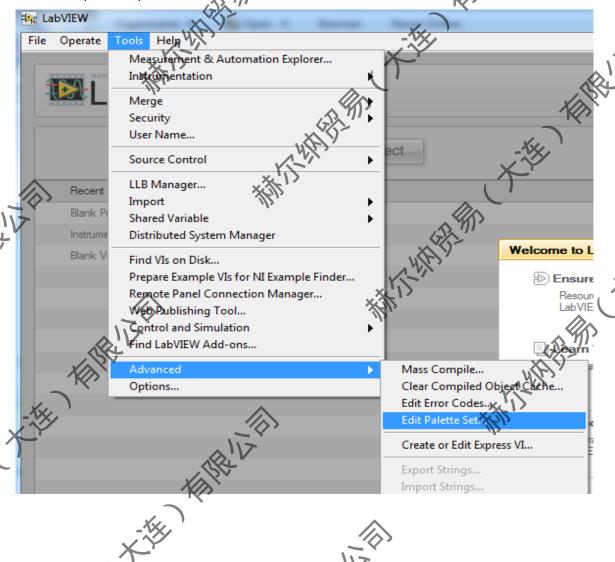
  Vote:

  'Device is equal to pDev , hSimulyzer and hSimu
  /hen SetTempDirectoryBath.vi is callilS\_FPGA\_IMAGE

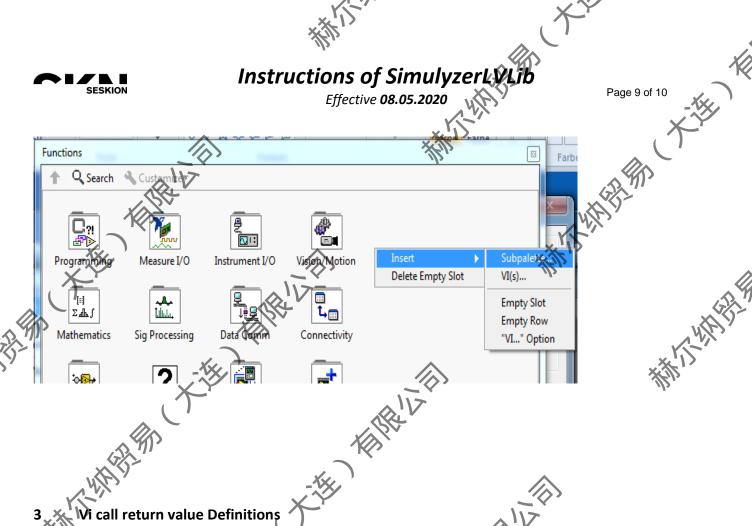
  'IS\_FPGA\_IMAGE
  IS\_MICC PSI5\_MICO\_APPLICATION\_VERSION 0x012D
- DSI\_FPGA\_IMAGE\_VERSION 0x0421; DSI\_MICO ICATION TYPE 0x0004; DSI MICO APPLICATION VERSION

# Appendix:

Create a Subpalette: Open LabView



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call return value Definitions

#define SIMULYZER ERROR SUCCESS

- //!< call was successfu #define SIMULYZER ERROR DEVICE NOT OPEN
- //!< call to a device which was not successful opened #define SIMULYZER ERROR CALIBRATION ACTIVE
- (-2) //!< call to a device function when calibrating is active #define SIMULYZER\_ERROR\_TEMP\_PATH\_NOT\_SET
- (-3) //!< call to a device without setting a valid temp directory #define SIMULYZER ERROR UNABLE TO START THREADS
- //!< start sampling could not start all threads #define SIMULYZER\_ERROR\_RAW\_STORAGE
- //!< unexpected error occurred when storing raw (analog) dat #define SIMULYZER ERROR DATA STORAGE
- //!< unexpected error occurred when storing sensor data #define SIMULYZER\_ERROR\_RECEIVER
- !< unexpected error occurred when receiving data #define SIMULYZER ERROR TRANSMITTER
- //!< unexpected error occurred when transmitting data
- #define SIMULYZER\_ERROR\_UNABLE\_TO\_STOP\_THREADS
- //!< stop sampling could not stop all threads #define SIMULYZER\_ERROR\_NO\_DEVICE

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# Instructions of SimulyzerLyLib Effective 08.05.2020 ect to \_FOUND

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(-10) //!< no device to connect to

#define SIMULYZER\_ERROR\_FILE\_NOT\_FOUND

(-11) //!< file not found

#define SIMULYZER ERROR\_TRIGGER\_STORAGE

#define SIMULYZER\_ERROR
#define SIMULYZER\_ERROR
#define SIMULYZER\_ERROR (-12)  $\mathcal{N}$ !< unexpected error occurred when storing trigger data

#define SIMULYZER\_ERROR\_UNSUPPORTED\_FUNCTION

(-13) //!< active device does not support this function

(-14) //!< call to StopSampling without previous call to StartSampling

#define SIMULYZER\_ERROR\_INVALID\_START\_CALL

#define SIMULYZER\_ERROR\_SYSTEMCONFIGINVALID

(-15) //!< recursive call to StartSampling
SIMULYZER\_ERROR\_SYSTEMCONFIGINVALID

(-16) // system configuration file is invalid or one of the requested devices could not be opened
SIMULYZER FLASH PROGRAMMING ERROR

#define SIMULYZER\_FLASH\_PROGRAMMING\_ERROR

#define SIMULYZER\_ERROR\_EMBEDDED\_CONF\_TIMEOUT

(-18) //!< embedded controller config timeout

#define SIMULYZER\_ERROR\_UNKNOWN\_EXCEPTION

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(-9999) //!< an unknown exception occurred when processing the API call

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